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We present Matrix Distributed Processing, a C++ library for fast development of efficient parallel algorithms. MDP is based on MPI and consists of a collection of C++ classes and functions such as lattice, site and field. Once an algorithm is written ...

6 [Using logical views and dialogue to answer locally-expressed distributed queries](#)  
Neha Srivastava

May 2004 Journal of Computing Sciences in Colleges, Volume 19 Issue 5

**Publisher:** Consortium for Computing Sciences in Colleges

Full text available: [PDF](#) (118.32 KB)

**Additional information:** [full citation](#), [abstract](#)

**Bibliometrics:** Downloads (6 Weeks): 0, Downloads (12 Months): 6, Downloads (Overall): 39, Citation Count: 0

It is often desirable to consolidate related information stored across multiple databases by querying all of them at once. However, these databases are often designed by different people, who have different conceptualizations of the domain in question, ...

7 [View-based consistency and false sharing effect in distributed shared memory](#)

W. Huang, C. Sun, M. Purvis, S. Cranefield

April 2001 SI GOPS Operating Systems Review, Volume 35 Issue 2

**Publisher:** ACM

Full text available: [PDF](#) (691.46 KB)

**Additional information:** [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 1, Downloads (12 Months): 16, Downloads (Overall): 71, Citation Count: 0

This paper proposes a novel *View-based Consistency* model for Distributed Shared Memory. A view is a set of ordinary data objects that a processor has the right to access in a data-race-free program. The *View-based Consistency* model requires ...

**Keywords:** distributed shared memory, false sharing, sequential consistency

8 [A distributed artificial intelligence view on general purpose vision systems \(abstract\)](#)

Gilbert Bolivar, Yves Demazeau

December 1992 SI GIPS Bulletin, Volume 13 Issue 3

**Publisher:** ACM

Full text available: [PDF](#) (51.62 KB)

**Additional information:** [full citation](#), [abstract](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 0, Downloads (12 Months): 15, Downloads (Overall): 80, Citation Count: 0

A General Purpose Vision System (GPVS) is an open and domain-independent system that is able to build, maintain, and use an internal representation of the external world from data provided by physical sensors such as cameras. The experience in constructing ...

9 [Relational views as a model for automatic distributed implementation of multi-user applications](#)

T. C. Nicholas, Graham, Jane, Vines

December 1992 CSCW '92: Proceedings of the 1992 ACM conference on Computer-supported cooperative work

**Publisher:** ACM

Full text available: [PDF](#) (786.52 KB)

**Additional information:** [full citation](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 2, Downloads (12 Months): 13, Downloads (Overall): 219, Citation Count: 6

**Keywords:** groupware, Implementation, multi-user applications

10 [View Management in Distributed Data Base Systems](#)

Elisa Bertino, Laura M. Haas, Bruce G. Lindsay

October 1983 VLDB '83: Proceedings of the 9th International Conference on Very Large Data Bases

**Publisher:** Morgan Kaufmann Publishers Inc.

**Additional information:** [full citation](#), [references](#), [cited by](#)

**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 5

11 [A pragmatic view to integrating distributed applications based on CORBA in Nebros Workflow Management system](#)

Farshid Zaker, Arash Farzan, David Khosravi, Mohammad Bakou Katami, Sasan Dashtinezhad

November 2002 OOPSLA '02: Companion of the 17th annual ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications

**Publisher:** ACM

Full text available: [PDF](#) (77.93 KB)

**Additional information:** [full citation](#), [abstract](#), [index terms](#)


**Bibliometrics:** Downloads (6 Weeks): 0, Downloads (12 Months): 11, Downloads (Overall): 132, Citation Count: 0



In this demonstration, we are going to present a workflow management system that is built up with distributed objects based on CORBA. In addition to its architecture, we will show how a workflow manager can act as a higher-level infrastructure over CORBA ...

**Keywords:** CORBA, business process, distributed objects, use case, workflow manager

12 [View-based mechanisms for structured and distributed enactment](#)

 Denis Avrilhon, Pierre-Yves Cunin

October 1996 **ISAW '96: Joint proceedings of the second international software architecture workshop (ISAW-2) and international workshop on multiple perspectives in software development (Viewpoints '96) on SIGSOFT '96 workshops**


**Publisher:** ACM 

Full text available:  [Full](#) (558.38 KB)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 0, Downloads (12 Months): 1, Downloads (Overall): 82, Citation Count: 0

13 [A pragmatic view of distributed processing systems](#)

 Kenneth J. Thurber

May 1981 **ISCA '81: Proceedings of the 8th annual symposium on Computer Architecture**

**Publisher:** IEEE Computer Society Press


Full text available:  [Full](#) (39.89 KB)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 1, Downloads (12 Months): 7, Downloads (Overall): 81, Citation Count: 0


This course provides an overview of state-of-the-art concepts and problems associated with implementing a distributed processing system. It defines what constitutes a distributed system and discusses contemporary models of distributed systems. The tutorial ...

14 [Single logical view over enterprise-wide distributed databases](#)

 Andrew E. Wadé

June 1993 **SIGMOD '93: Proceedings of the 1993 ACM SIGMOD international conference on Management of data**

**Publisher:** ACM 

Full text available:  [Full](#) (490.97 KB)

Additional Information: [full citation](#), [abstract](#), [index terms](#)


**Bibliometrics:** Downloads (6 Weeks): 5, Downloads (12 Months): 22, Downloads (Overall): 253, Citation Count: 0

Two trends in today's corporate world demand distribution: downsizing from centralized mainframe single database environments; and wider integration, connecting finance, engineering, manufacturing information systems for enterprise-wide modeling and ...

Also published in:

June 1993 **SIGMOD Record** Volume 22 Issue 2

15 [Parallel multisource view maintenance](#)

 Yin Zhang, Linli Fan, Riva A. Rubinfeld

January 2004 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 13 Issue 1

**Publisher:** Springer-Verlag New York, Inc.

Full text available:  [Full](#) (382.15 KB)

Additional Information: [full citation](#), [abstract](#), [references cited by index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 4, Downloads (12 Months): 47, Downloads (Overall): 752, Citation Count: 4

In a distributed environment, materialized views are used to integrate data from different information sources and then store them in some centralized location. In order to maintain such materialized views, maintenance queries need to be sent to information ...

**Keywords:** Concurrent data updates, Data warehousing, Parallel view maintenance, Performance evaluation

16 [Asynchronous view maintenance for VLSD databases](#)

 Parag Agarwal, Adam Silberstein, Brian E. Cooper, Utkarsh Swastava, Raghu Ramakrishnan

June 2009 **SIGMOD '09: Proceedings of the 35th SIGMOD international conference on Management of data**

**Publisher:** ACM 

Full text available:  [Full](#) (415.96 KB)

Additional Information: [full citation](#), [abstract](#), [references cited by index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 20, Downloads (12 Months): 389, Downloads (Overall): 461, Citation Count: 0

The query models of the recent generation of *very large scale distributed (VLSD)* shared-nothing data storage systems, including our own PNUTS and others (e.g. BigTable, Dynamo, Cassandra, etc.) are intentionally simple, focusing on simple lookups ...

**Keywords:** distributed and parallel databases, Indexes, views



21 [The case for a unified extensible data-centric mobility infrastructure](#)

[Jun Mao](#), [Zachary Aves](#), [Kevin Thau Lee](#), [Jonathan M. Smith](#)

August 2007 **MobiArch '07**: Proceedings of 2nd ACM/IEEE international workshop on Mobility in the evolving internet architecture

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**Bibliometrics:** Downloads (6 Weeks): 0, Downloads (12 Months): 12, Downloads (Overall): 41, Citation Count: 2

We present a unified, extensible data-centric mobility infrastructure based on *declarative networks* and *composable distributed views* over network, router, and host state. Declarative networks are a recent innovation for building extensible ...

18 [Minimizing communication cost in a distributed Bayesian network using a decentralized MDP](#)

[Baying Shen](#), [Victor Lesser](#), [Norman Carver](#)

July 2003 **AAMAS '03**: Proceedings of the second international joint conference on Autonomous agents and multiagent systems

**Publisher:** ACM [Request Permissions](#)

Full text available: [PDF](#) (209.97 KB)

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**Bibliometrics:** Downloads (6 Weeks): 4, Downloads (12 Months): 38, Downloads (Overall): 320, Citation Count: 9

In complex distributed applications, a problem is often decomposed into a set of subproblems that are distributed to multiple agents. We formulate this class of problems with a two layer Bayesian Network. Instead of merely providing a statistical view, ...

**Keywords:** Bayesian networks, action selection, coordination of multiple agents, decentralized MDPs, decision-theoretic planning

19 [Effective partition-driven placement with simultaneous level processing and global net views](#)

[Ke Zhang](#), [Shanfeng Dutt](#)

November 2000 **ICCAD '00**: Proceedings of the 2000 IEEE/ACM international conference on Computer-aided design

**Publisher:** IEEE Press

Full text available: [PDF](#) (113.97 KB)

Additional Information: [full citation](#), [abstract](#), [references](#),  [cited by](#)

**Bibliometrics:** Downloads (6 Weeks): 2, Downloads (12 Months): 9, Downloads (Overall): 115, Citation Count: 7

In this paper we take a fresh look at the partition-driven placement (PDP) paradigm for standard-cell placement for wire-length minimization. The goal is to develop several new algorithms for incorporation into a PDP framework that can rectify the well-known ...

20 [A stepwise approach to distributed database systems by database machines](#)

[Sudavatu Kiriha](#), [Susumu Kawakami](#), [Hiromi Harasawa](#)

May 1985 **SIGSMALL '85**: Proceedings of the 1985 ACM SIGSMALL symposium on Small systems

**Publisher:** ACM [Request Permissions](#)

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Database machines are good components to compose distributed systems along with personal computers and local area networks. Distributed database systems by those machines could be cost-effectively respond to various user's requirements. A stepwise approach ...

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